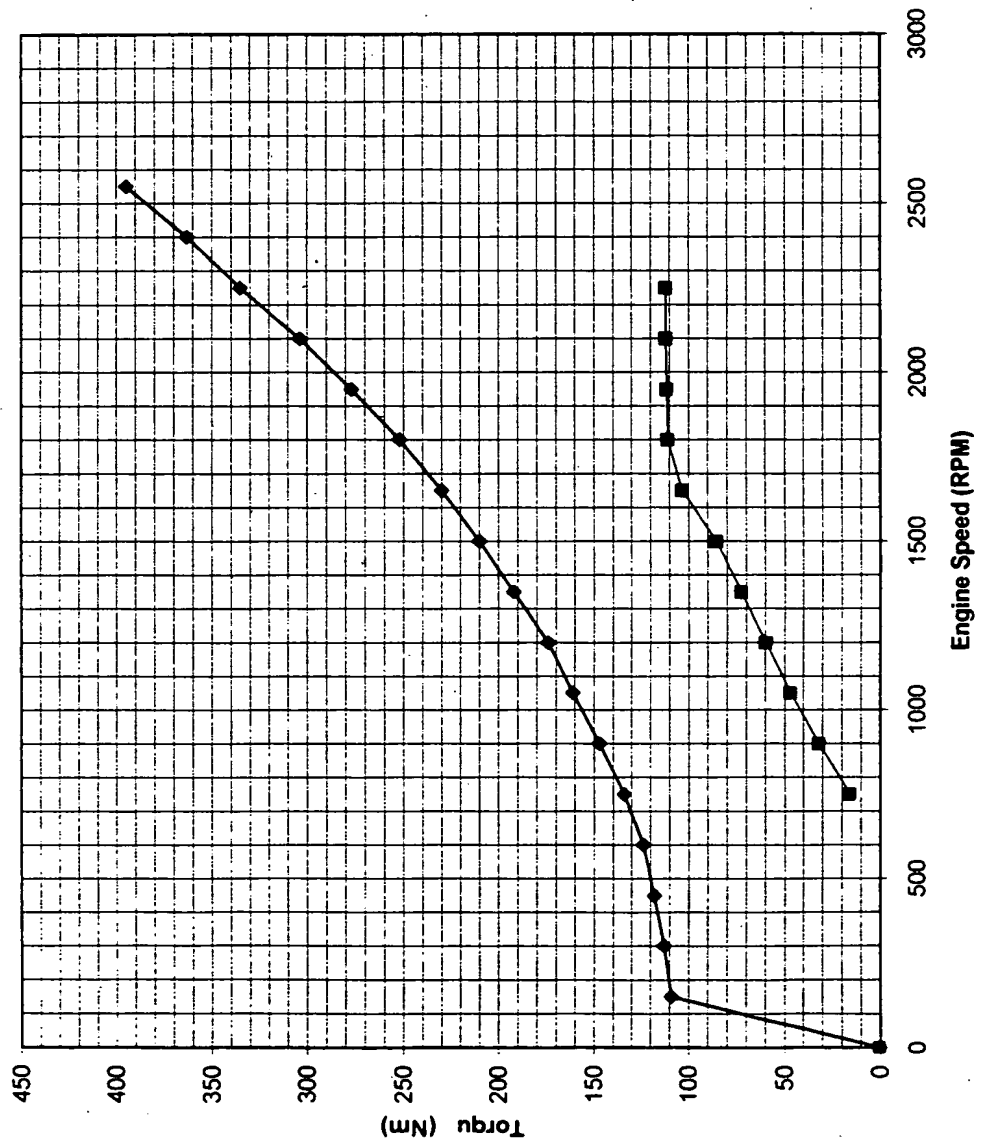


**Engine Friction and Fan Torque Losses**



*Fig. 1*

Title: **METHOD OF ESTIMATING ENGINE COOLING FAN POWER LOSSES**

First Named Inventor: **Jeffery S. Hawkins**

Atty. Docket No.: **DDC 0564 PUS/02-1-133**

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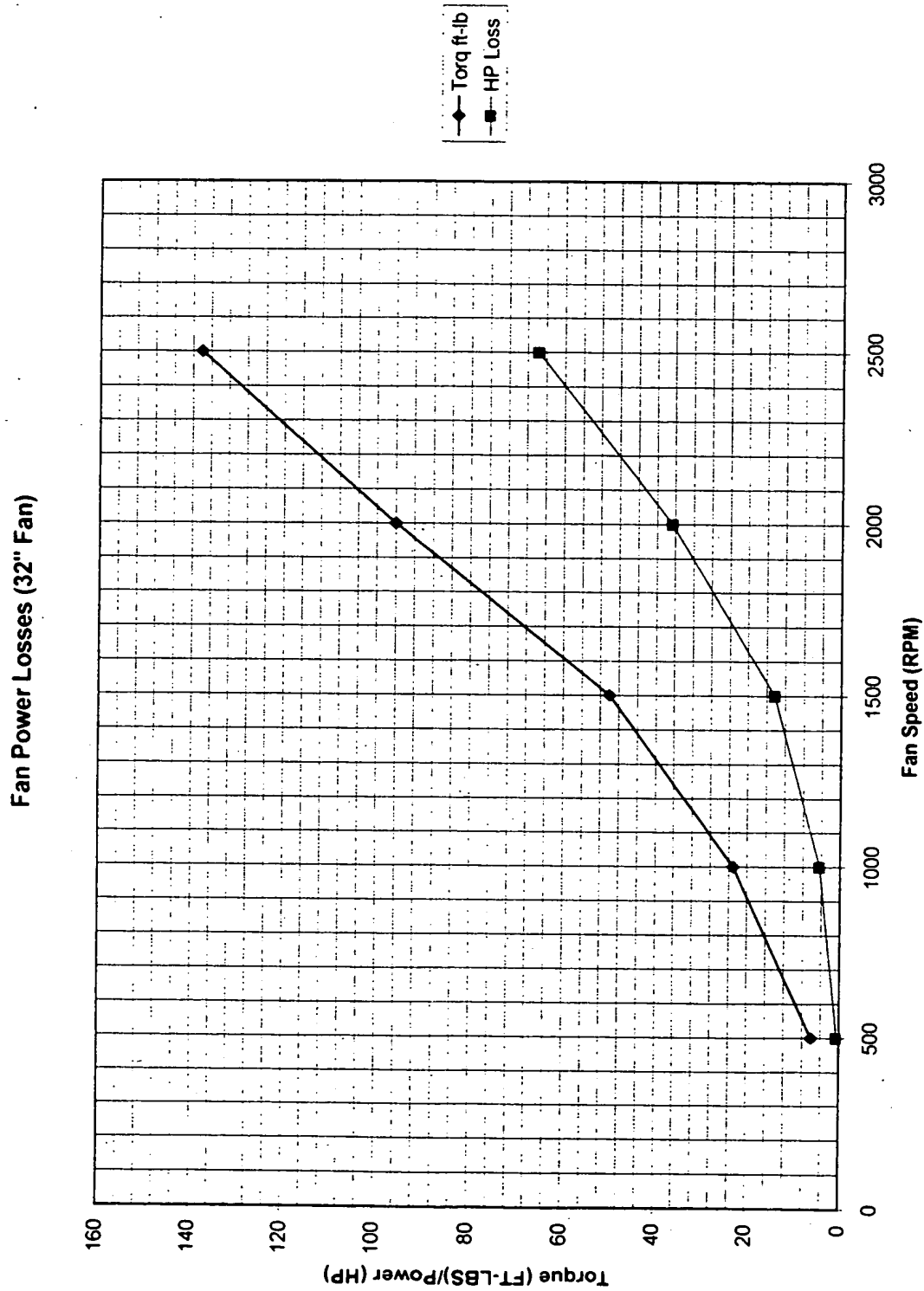


FIG. 2

Title: **METHOD OF ESTIMATING ENGINE COOLING FAN POWER LOSSES**

First Named Inventor: **Jeffery S. Hawkins**

Atty. Docket No.: **DDC 0564 PUS/02-1-133**

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Fan HP Loss Vs. Duty Cycle and Engine RPM

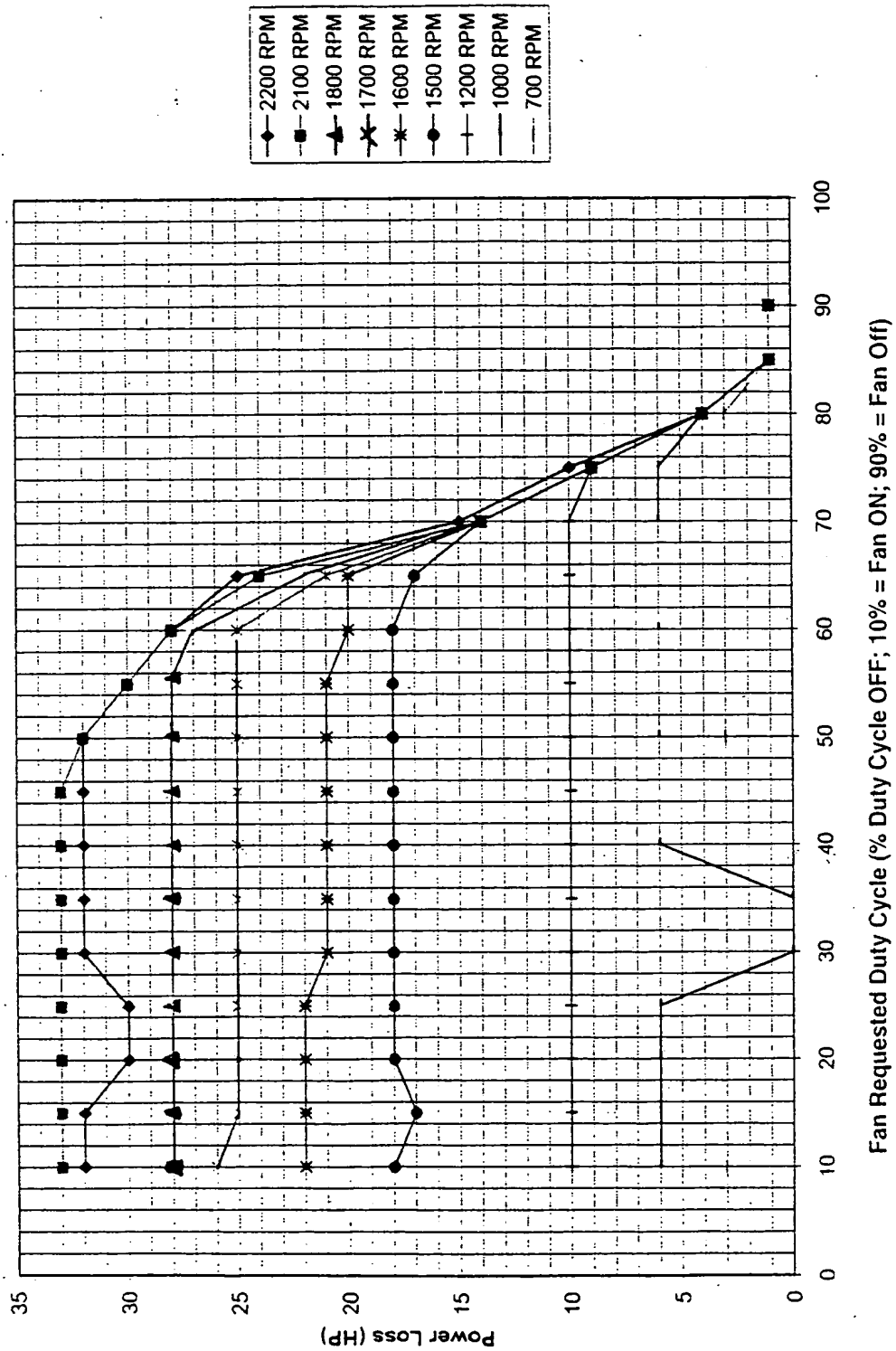


FIG. 3

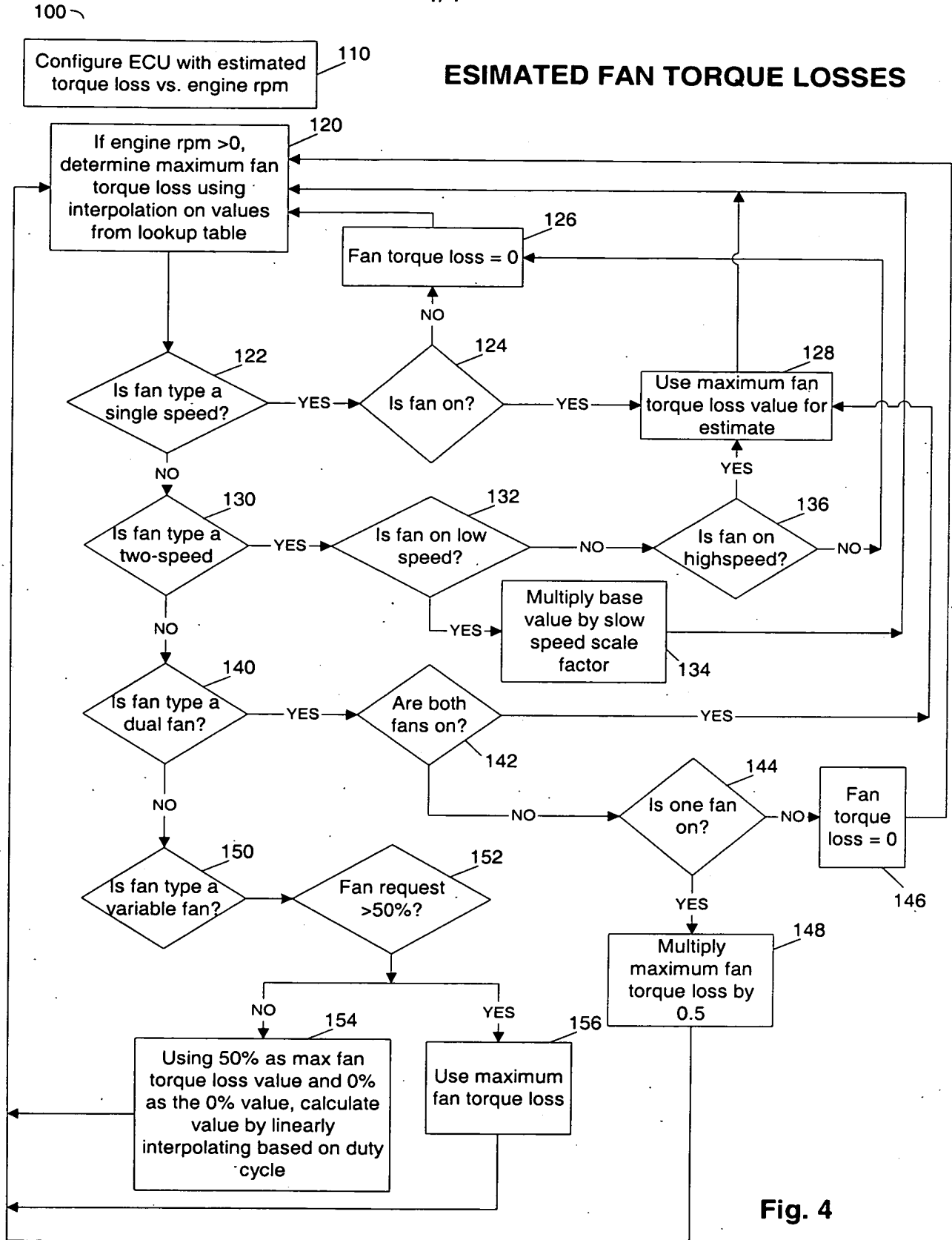


Fig. 4